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Rev. 1.1

Introduction

Thank you for purchasing KOB Portable MP3 Player !

KOB MP330 is a versatile MP3 encoder / player which enables you to directly encode your music and voice into MP3 quality; KOB MP320 is an MP3 player and voice recorder which enables you to directly line-in record your music; WITHOUT using computer, you can enjoy digital music in a more convenient way.

Its high quality one-touch voice recording feature can be used to record lectures, interviews or meetings.

With its tiny and fashionable design, KOB MP330 and KOB MP320, possesses varieties of features. Here are the functions in highlights:

- Direct line-in encoding voice format (MP3 or voice format in KOB MP330)
- 128MB internal memory
- MP3, WMA, ADPCM playback
- 30 FM preset channels (***Enhanced Feature!***) (KOB MP330 only)
- FM recording in MP3 quality (KOB MP330 only)
- High quality voice recording from built-in microphone
- Voice messages recording in voice format (MP3 or voice format in KOB MP330)
- Various MP3 recording bit rates (48kbps, 96kbps, 128kbps) (KOB MP330 only)
- Rainbow flashlight (KOB MP330 only)
- Fancy flashlight (KOB MP320 only)
- Support ID3 tag
- Act as an external drive, support file storage and transfer (***New feature!***)
- Mini-USB connection with PC
- No PC software required
- Firmware upgrades
- Pitch conversion (KOB MP320 only)

Other functions:

- A-B looping support
- 5 equalizers
- Sleep preset

Copyright notice

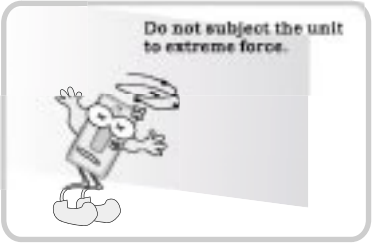
You must be aware that distribution of MP3 files without permission from the content owner is against the copyright laws. Kobian Group and its associating companies will not be liable against such actions.

Safety information

This equipment has been tested and found to comply with limits for class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, these are no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/ TV technician for help Modifications not authorized by the manufacturer may void users authority to operate this device.
- During file transfer or in the PC connected mode, if the player or computer is suddenly froze or no response, it may be due to the electrostatic phenomenon, please follow the procedures below to recover the operation:
  - unplug the USB cable from the player
  - close the software application in the computer (or re-boot the computer if necessary)
  - reconnect the USB cable to the player

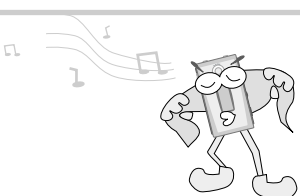
Precautions



Do not keep or operate the unit in places that are exposed to heat strong magnetic field and under direct sunlight for extended time period.

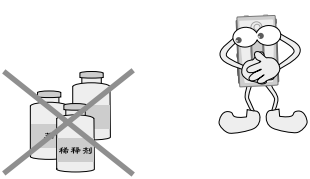
Do not expose to high humidity.

Do not open the player as it will damage the unit.

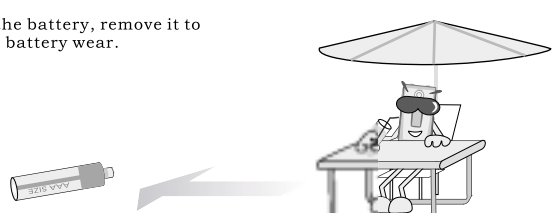


Use a soft towel to clean the surface of the player.

Do not put the player near chemical.



When not using the battery, remove it to prevent needless battery wear.



In the Package

1. Main Unit
2. Stereo Earphone
3. Mini-USB Cable
4. CD for Driver Installation
5. Neck String
6. Carrying Pouch with an Arm Band (KOB MP330 only)
7. User Manual

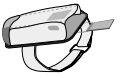
Main Unit

Stereo Earphone

Mini-USB Cable

CD for Driver Installation

Neck String



Carrying Pouch
with an Arm Band
(KOB MP330 only)

User Manual

Specifications

Size (HxWxD)	73 x 42 x 16mm (2.87"x1.65"x0.63")
Net Weight	39g (without battery)
Internal Flash Memory	128MB (depending on product version)
Power Supply	1x AAA alkaline battery
PC Interface	Mini-USB
Radio Function (KOB MP330 only)	FM with auto scan and 30 preset channels
Digital Music Format	
Playback	MP3, WMA, all bit rates including VBR
Record (KOB MP330 only)	MP3 (48,96,128kbps in 44.1kHz from line-in, FM or internal mic)
Digital Music Format	
Playback	ADPCM (32kbps)
Record	ADPCM from interal mic. or line-in
Built-in Microphone	Electric condenser microphone
Signal to Noise Ratio	>90dB
Frequency Range	20Hz - 20kHz
Battery Life	15+ hours
Equalizer	Jazz, Rock, Classic, Pop, User
Play Mode	Normal, Repeat one, Repeat all, Random, Repeat random

All specifications are subject to change without notice.

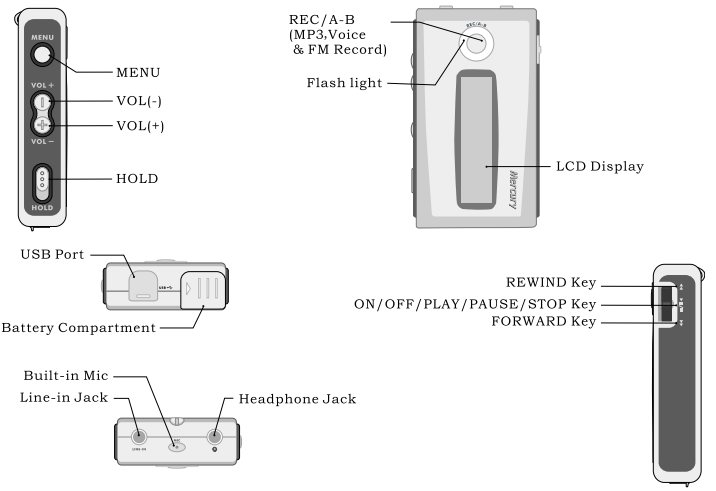
Some WMA encoders may have DRM enabled (Digital Right Management) which does not allow WMA file playback in portable device. For encoding with Windows Media Player 7.0 or above, there is a portable device function to transfer music to portable device. By using this function, the copyright management will be automatically disabled so that the WMA file can be played in your portable device.

Notes:

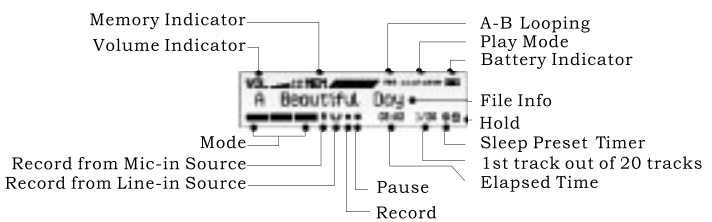
- MPEG Layer 3 audio coding technology licensed from Fraunhofer IIS and THOMSON Multimedia. Supply of this product only conveys a license for personal, private and non-commercial use and does not convey a license nor imply any rights to use this product in real time broadcasting (terrestrial, satellite, cable and other media) or broadcasting via internet or other networks, such as but not limited to intranets or in pay-audio or audio-on-demand application. An independent license for such use is required.
- Some copying may require the permission of the relevant copyright owner. We do not have the authority to grant such permission. Kobian Group and its resellers will not be liable for unlawful use of the above product.

Knowing Your MP3 Player

Name of parts



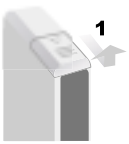
The Display Window



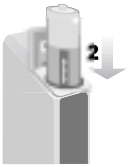
Memory indicator	Shows how much memory is used. The filled block represents the remaining memory. For 128MB, one block means about 21MB .
A-B looping	This special feature enables you to learn a language, repeat a voice recording or repeat your favorite section of the song .
Battery level indicator	Shows how much longer the battery can be used, level decreases as battery is used.

Knowing Your MP3 Player

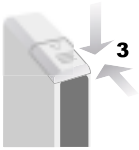
Inserting battery



Open the battery door according to this direction.



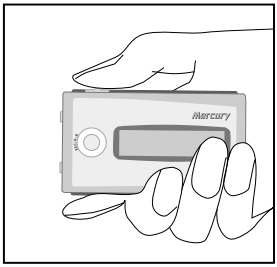
Put the battery into the compartment. Pay attention to the polarity.



Close the battery door.

Notes:

If you follow the picture below to grasp the MP3 Player, it is easier to handle.



Turn on the player

Press and hold▶II/■

Make sure the **HOLD** button switch off. If not, “LOCKED” will display for your signal.

Turn off the player

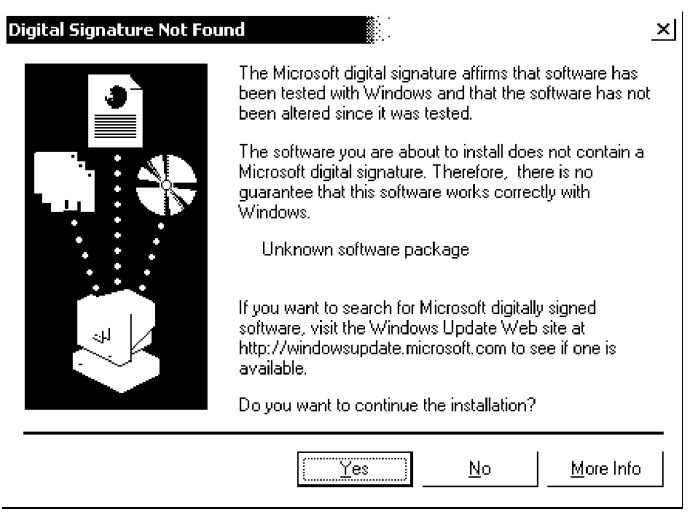
Press and hold▶II/■ (except when your player is connected to a PC)

Installing the Device

The MP3 player does not require any special program for transferring music files. Music files transfer can be done easily by simple drag-and-drop. It does not require to learn new software application.

Installing the USB device:

1. Make sure the MP3 player is unplugged from the USB port of your PC.
2. Insert the software installation CD that comes with the MP3 player into the CDROM drive of your PC, the installation should start automatically.
3. You can also start the installation manually by clicking “Start-> Run”in the windows. Enter “x:\setup.exe”in the space provided, where “x:” is the drive letter of your CDROM drive.
4. During installation, the USB driver is automatically installed and simply follow the instructions to complete installation of MP3 player firmware upgrader.
5. During the installation, the following pop-up window will appear:


Digital Signature Not Found
The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.
The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.
Unknown software package
If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.
Do you want to continue the installation?
Yes
No
More Info

Simply click “Yes” to continue installation.

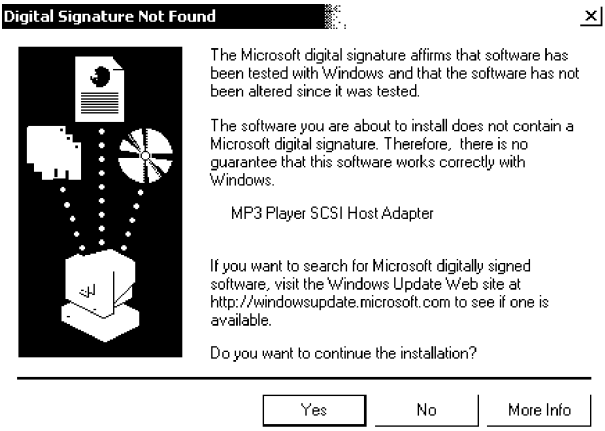
If you are using Windows XP, the following pop-up window will appear:

Software Installation
The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

Simply click “Continue Anyway” to continue installation.

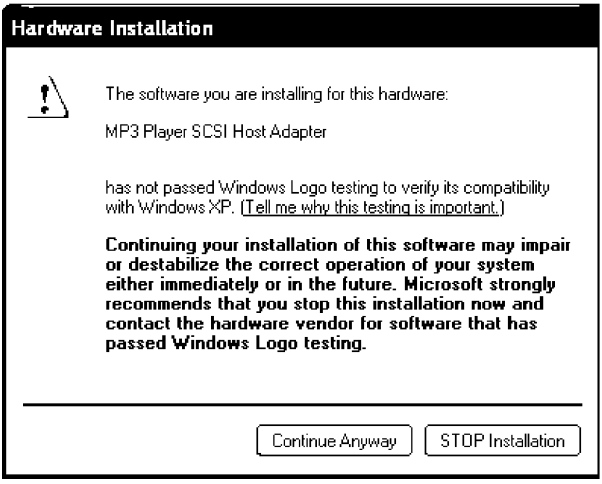
6. You are recommended to re-start the computer after installation is completed.
7. After re-start the computer you can connect your MP3 player to the USB port of your PC. A “New Hardware Found” window will appear when windows tries to recognizing your player.

8. During the process of recognize your player, the following pop-up window will appear:


Digital Signature Not Found
The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.
The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.
MP3 Player SCSI Host Adapter
If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.
Do you want to continue the installation?
Yes
No
More Info

Simply click “Yes” to continue the process of recognizing your player.

If you are using Windows XP, the following pop-up window will appear:


Hardware Installation
The software you are installing for this hardware:
MP3 Player SCSI Host Adapter
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

Simply Click “Continue Anyway” to continue the process of recognizing your player.

9. If the player is connected to your PC, you will see “USB Connected” on the player screen.

Notes:

- If the connection failed, open the device manager in windows. Make sure that "MP3 player" is installed. If not, please make sure you have administrative rights in windows and run the installation again.
- You can also download the USB driver and the firmware upgrader.

Transferring files

1. Switch on the player and connect it securely to the PC with the USB cable.
2. Double click on "My Computer" on the desktop of windows, there will be an additional drive created.
3. To download music files to your MP3 player, simply drag the files from the windows explorer and drop them to the newly created drive. You can also upload files from the player to the PC by doing the reverse *.

The MP3 player can also be used as an external drive for storage of non-music files.

Notes:

* User must be aware that uploading MP3 files without permission from the content owner is against the copyright laws.

You are recommended to right click the drive and select “Jump” to quit so as to ensure you exit safely without the risk of file corruption.

1. Unplug the USB cable when the downloading procedure is completed. DO NOT unplug the USB cable when the LCD is still playing ”USB writing” as doing so may corrupt the files stored in the player and you will need to RE-FORMAT the MP3 player. Also, if the player encounters abnormal interruption during recording such as battery removal, you may also need to RE-FORMAT it.
2. The MP3 player does not support WAV files downloaded or created by user. It support WAV files recording direct from the MP3 player only.

Firmware Upgrader

Firmware upgrader enables you to perform firmware upgrade,if new firmware is available, to enhance your MP3 player or to obtain new features.

Minimum system requirement

1. Windows98, 2000, ME, XP, XP Pro, XP home
2. Pentium II 233MHz
3. 32 MB RAM
4. 56Kbps modem internet connection
5. USB1.1

Installation

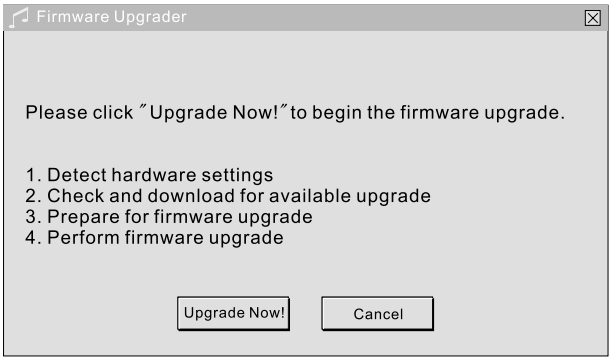
When installing the USB device, firmware upgrader is also automatically installed.

Firmware upgrade

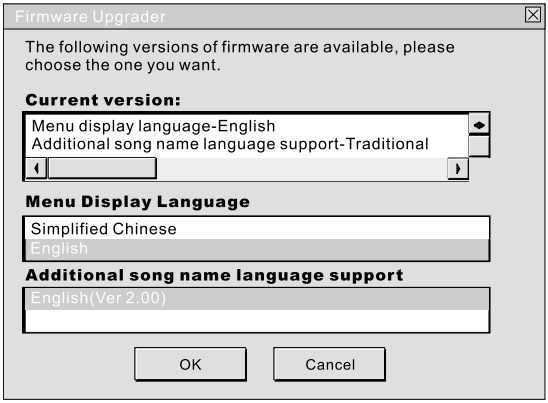
1. To perform firmware upgrade, please make sure your MP3 player is connected securely to the USB port of your PC and the corresponding USB driver program is installed.
2. Start the firmware upgrader by clicking "Start->Programs" in windows and choose "Firmware Upgrader" in the program menu.

Firmware Upgrader

To start the firmware upgrade, click "Upgrade Now!"

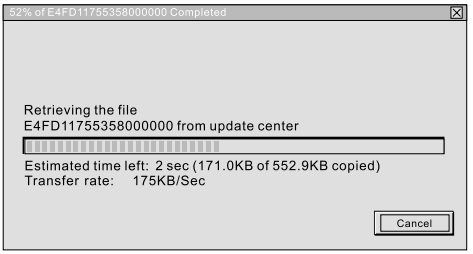

Firmware Upgrader
Please click ″Upgrade Now!″ to begin the firmware upgrade.
1. Detect hardware settings
2. Check and download for available upgrade
3. Prepare for firmware upgrade
4. Perform firmware upgrade
Upgrade Now!
Cancel

The program will then connect to the internet to search for available updates. A list of firmware versions will be shown. Please choose the desired Menu display language and Additional song name language support for your MP3 player. Click “OK” to continue.

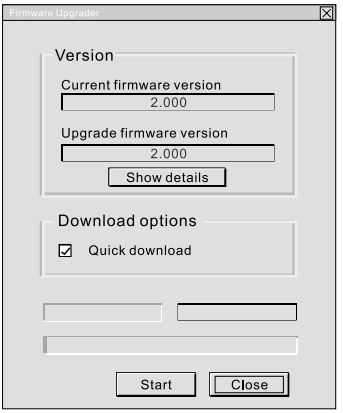


Firmware Upgrader

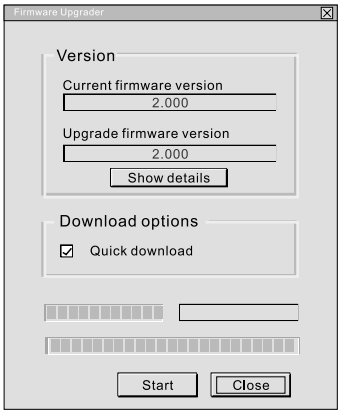
The program will try to download the updates from the internet. The downloading time will be 5 - 7 minutes for 56k modem.


52% of E4FD11755358000000 Completed
Retrieving the file
E4FD11755358000000 from update center
Estimated time left: 2 sec (171.0KB of 552.9KB copied)
Transfer rate: 175KB/Sec
Cancel

After downloading, a firmware upgrade window will appear. Click "Start" to begin to upgrade your MP3 player.



After the upgrade, click "Close" to close the firmware upgrade window.



At last, the program then will tell you the upgrade is completed.

PortableSWUpgrader
Firmware upgrade is completed!
Thank you for using Firmware Upgrader You are advised to use this software regularly to enhance your portable player.
OK

Unplug the USB cable to allow the new firmware to take effect.

Operating controls

Operating in Music Mode

The following tables show all key response under different operations in music mode.

Music Playing Mode

Key	Key action	Browsing	Playing
▶II/■	Short	Play current track	Stop/Pause current track
	Long	Power off	Power off
▶▶	Short	Move to next track	Play next track
	Long	Move to next track continuously	Fast forward
◀◀	Short	Move to previous track	Play previous track
	Long	Move to previous track continuously	Fast backward
MENU		Enter Menu	Enter Menu
VOL +		Increase the volume	Increase the volume
VOL -		Reduce the volume	Reduce the volume
REC/A-B		Start recording	Set point A (A-B loop function)
HOLD	On/Off	All keys are locked	All keys are locked

Music Recording Mode

Key	Key action	Recording
▶II/■	Short	Pause / Resume recording
	Long	Power off
▶▶	Short/Long	No response
◀◀	Short/Long	No response
MENU		No response
VOL +		No response
VOL -		No response
REC/A-B		Stop recording
HOLD	On/Off	All keys are locked

Operating controls

Operating in Radio Mode (KOB MP330 only)

The following tables show all key response under different operations in radio mode.

FM Radio Playing Mode

Key	Key action	Normal Mode	Preset Mode
▶II/■	Short	No response	No response
	Long	Power off	Power off
▶▶	Short	Increase frequency (step size=0.05MHz)	Move to next preset station
	Long	Auto-search up	Continuously move to next preset station
◀◀	Short	Decrease frequency (step size=0.05MHz)	Move to previous preset station
	Long	Auto-search down	Continuously move to previous preset station
MENU		Enter Menu	Enter Menu
VOL +		Increase the volume	Increase the volume
VOL -		Reduce the volume	Reduce the volume
REC/A-B		Start recording	Start recording
HOLD	On/Off	All keys are locked	All keys are locked

FM Radio Recording Mode

Key	Key action	Recording
▶II/■	Short	Pause / Resume recording
	Long	Power off
▶▶	Short/Long	No response
◀◀	Short/Long	No response
MENU		No response
VOL +		No response
VOL -		No response
REC/A-B		Stop recording
HOLD	On/Off	All keys are locked

Operating controls

Operating in Voice Mode

The following tables show all key response under different operations in voice mode.

Voice Playing Mode

Key	Key action	Browsing	Playing
▶II/■	Short	Play current track	Stop/Pause current track
	Long	Power off	Power off
▶▶	Short	Move to next track	Play next track
	Long	Move to next track continuously	Fast forward
◀◀	Short	Move to previous track	Play previous track
	Long	Move to previous track continuously	Fast backward
MENU		Enter Menu	Enter Menu
VOL +		Reduce the volume	Reduce the volume
VOL -		Decrease the volume	Decrease the volume
REC/A-B		Start recording	Set point A (A-B loop function)
HOLD	On/Off	Hold icon will be turned on	Hold icon will be turned on

Voice Recording Mode

Key	Key action	Recording
▶II/■	Short	Pause / Resume recording
	Long	Power off
▶▶	Short/Long	No response
◀◀	Short/Long	No response
MENU	Short/Long	No response
VOL +	Short/Long	No response
VOL -	Short/Long	No response
REC/A-B	Short/Long	Stop recording (Go back to previous screen)
HOLD	On/Off	All keys are locked

Detailed Controls

Switching Modes

The MP3 player supports three operation modes: the music mode, the radio mode and the voice mode (2 for KOB MP320, the music mode and the voice mode). To switch mode, press the **MENU** , press ▶II/■ to select mode, use ◀◀/▶▶ to select the desired mode, then press ▶II/■ to confirm.

Playing Music or Voice files

1. Play/ Stop
   Press ▶II/■ to play tracks, and again to stop.

2. Selecting tracks

a. While playing, press ▶▶ shortly to play next track, press ◀◀ to play previous track.

b. Pressing ▶▶ or ◀◀ while player is stopped lets you browse through the tracks stored in memory

3. Moving within track
   Press ▶▶ or ◀◀ for more than 1 second to fast forward and fast backward.

4. A-B looping
   While playing music or voice, press "**A-B**" , to mark the point where you want the section to start (Point A). Press "**A-B**" again where you want the section to end (Point B), then the section will repeat continuously.

5. Delete tracks or voice file
   Choose delete from **MENU**, using ▶▶ or ◀◀ to select tracks or voice file and press ▶II/■ to delete.

Recording

1. Music recording in music mode
   This function enables you to record any audio source to MP3. Con-

nect the audio source to line-in jack by a stereo cable.
Press **REC** to start recording in music mode. To stop recording, press **REC** again. When recording, a "●" will be shown. Press ▶II/■ to pause or resume recording.

Note:
The default recording source is Mic-In. If you want to change the recording source to record music, you need to change to line-in before recording. Please refer to system settings.

2. Voice recording in voice mode
   This feature offers high quality one touch voice recording. You can select to record voice in ADPCM format in voice mode (or MP3 quality in music mode in KOB MP330) to enjoy smaller file size.
   Press **REC** to start recording in voice mode. To stop recording, press **REC** again. When recording, a "●" will be shown. Press ▶II/■ to pause or resume recording.

Note:
You can record line-in in voice mode to enjoy smaller file size by selecting recording source to line-in. To do so, please refer to the section “System Settings”.

3. Radio recording in radio mode (KOB MP330 only)
   Press **REC** to start recording in radio mode. To stop recording, press **REC** again. When recording, a "●" will be shown. Press ▶II/■ to pause or resume recording.

Note:
Radio recording quality depends on the reception quality.

Menu Settings

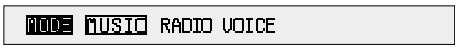
This section explains all settings which controls the functions under different modes. To change the settings, use ▶▶ & ◀◀ to move to each particular item. Press ▶II/■ to enter into the sub-menu, use ▶▶ & ◀◀ to choose the desired settings. Press ▶II/■ to confirm, you need to enter **MENU** under different modes to change the settings.

The following table shows all key response for menu setting in different mode:

KEY	key action
MENU	Enter/exit menu
◀◀/▶▶	Move left/right
▶II/■	Enter into sub-menu/confirm
Others	No response

Menu settings in Music Mode

Switching to Music Mode



Music: Switch to music mode
Radio: Switch to FM radio mode(KOB MP330)
Voice: Switch to voice mode

Playmode

Normal: Play all tracks in the selected album in order and stop after playing
Repeat One: Keep repeating the current track in the selected album
Repeat All: Play all tracks in the selected album in order and repeat
Random: Select a track in the selected album randomly, play the track and repeat the process.
Rpt Random: Keep repeating all tracks randomly.

Menu Settings

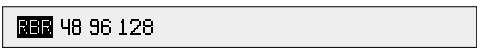
Equalizers

Select Normal, Rock, Classic, Jazz, Pop and User default

Bass: Set bass from level 1 to 4 (1 is the weakest and 4 is the strongest)

Treble: Set treble from level 1 to 4 (1 is the weakest and 4 is the strongest)

Recording Bit Rates
(KOB MP330)



There are choices of 48kbps, 96kbps,128 kbps for recording bit rates in MP3 recording.

Deleting Files

Refer to page 21.

Pitch Conversion
(KOB MP320 only)

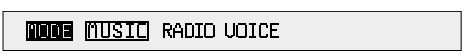
KOB MP320 is equipped with a special function that allows you to convert the pitch of the song. You can really have fun to use this function to change the voice from a male singer to a female singer and vise versa.

You can convert the pitch in menu mode.

Menu setting in Radio Mode (KOB MP330 only)

Normal Mode

Switching to Radio Mode

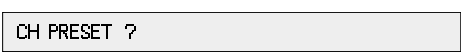


Music: Switch to music mode

Radio: Switch to FM radio mode

Voice: Switch to voice mode

Channel Preset



Save FM radio broadcast channel or delete

Menu Settings

Mono/Stereo Mode

MONO

Set FM radio output to stereo or mono

STEREO

Preset mode

MENU MODE PRESET MODE CH PRESET MONO SETTING

Switching to Radio Mode

MODE MUSIC RADIO VOICE

Music: Switch to music mode

Radio: Switch to FM radio mode

Voice: Switch to voice mode

Deleting Files

DELETE ?

Delete FM radio broadcast channels

Mono/Stereo Mode

MONO

STEREO

Set FM radio output to stereo or mono

Menu Settings

Menu setting in Voice Mode

Switching to Voice Mode

Music: Switch to music mode

Radio: Switch to FM radio mode (KOB MP330 only)

Voice: Switch to voice mode

Deleting Files

Refer to page 21.

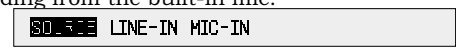
Menu Settings

System Settings

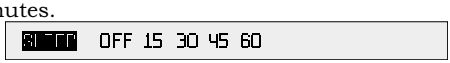
Here are all the items inside system settings

To change system settings, use ▶▶ & ◀◀ to move to each particular system setting sub-menu and press ▶II/■ to enter the sub-menu. Use ▶▶ & ◀◀ to choose the desired settings. Press ▶II/■ to confirm.

1. Source: This menu helps you select the recording source. Selecting line-in means recording from line-in source while selecting mic-in means recording from the built-in mic.

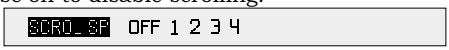


2. Sleep preset: Presetting 15 means the device will automatically power off in 15 minutes.

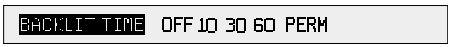


3. Resume: Enabling the resume function will go to the last track after you power on the device again.

4. Scrolling speed: There are 5 scrolling speed levels, 4 is the fastest. You can choose off to disable scrolling.

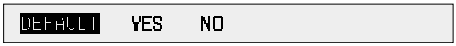


5. Backlit time(KOB MP330 only): There are 4 backlit time levels 10, 30, 60, permanent. It means the backlight will be on for 10, 30, 60 seconds or permanent when pressing any key.

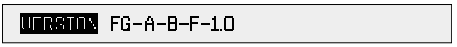


6. Contrast level: Use ▶▶ or ◀◀ to set the contrast level from 1 to 10.

7. Default setting: You may choose to save your settings as default by pressing “Yes”.

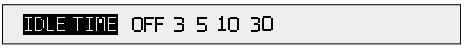


8. Version number: For checking the firmware version of this player.



9. Flash light: There are 4 flash light levels, 10, 30, 60, permanent. It means the flash light will be on for 10, 30, 60 seconds or permanent when playing music or voice.

10. Idle Time: The device will automatically power off when it is left idle for say 3 minutes .



Troubleshooting

1. The player does not work or nothing is displayed on the LCD	Check the capacity and the polarity of the battery. The player will automatically shut down to save power if it is left idle for 1 minute.
2. The buttons are not responding	Check if the "Hold" button on the main unit is locked . If yes, buttons will have no response.
3. Unable to play MP3 file	Check if the memory contains any MP3 files. Check if the player is in the music mode.
4. Unable to play ADPCM file	Check if the memory contains any VOC files. Check if the player is in the voice mode.
5. Unable to record via line-in	Check if there is enough space in the selected memory. Check if the cable is stereo and connected to the device properly.
6. A-B looping function is not working	This function is only working during playback.
7. Unable to install software or driver	Our installation CD only supports Windows 98, 2000, ME, XP, XP pro and XP home. Other system is not supported.
8. Unable to find the mass storage device after connected to the PC.	Make sure you have installed the correct driver. Make sure the player is power on and ready. Make sure USB device is installed. You may check this in the "Device manager" in your PC.
9. How to reset MP3 Player to factory default settings.	Choosing default setting in system settings. By choosing "YES" allow you to reset the player to factory default settings.
10. The backlight does not turn on. (KOB MP330)	Check if the backlight is disabled for power saving in the system setting. Please refer to page 27 for the system setting.

Attention

1. **Make sure that the USB driver is INSTALLED BEFORE connecting the MP3 player to computer. Unplug the MP3 player during installation.**

2. **DO NOT unplug the USB cable when the LCD is still displaying “USB writing”; otherwise, files in the MP3 player may be corrupted and format of MP3 player may be required.**

3. **During recording, prevent the MP3 player encountering abnormal interruption, such as battery removal; otherwise, files in the MP3 player may be corrupted and format of MP3 player may be required.**

Mercury

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KOB MP320

Portable MP3 Player and Voice Recorder

KOB MP330

Portable MP3 Recorder and Player

User Manual